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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,893	02/27/2004	Albert Z.H. Wang	IIT-199	9292
7590 06/12/2006		EXAMINER		
Roland W. Norris			NGUYEN, TUYEN T	
Pauley Petersen & Erickson			ART UNIT	PAPER NUMBER
Suite 365			ARTONII	PAPER NUMBER
2800 West Higgins Road			2832	
Hoffman Estates, IL 60195			DATE MAILED: 06/12/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/789,893	WANG, ALBERT Z.H.			
Office Action Summary	Examiner	Art Unit			
	TUYEN T. NGUYEN	2832			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period in Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>31 March 2006</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
 4) Claim(s) 1-27 is/are pending in the application 4a) Of the above claim(s) 5,6,8,9 and 13-27 is/5) Claim(s) is/are allowed. 6) Claim(s) 1-4,7 and 10-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	are withdrawn from consideration	i. : : :			
Application Papers		1			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 7 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imam [US 2002/0097128 A1] in view of Abel [US 6,198,374 B1].

Imam discloses a chip IC [figure 6, paragraph 3] comprising:

- an inductor coil [600]; and
- an electrically and magnetically core [640].

Imam discloses the instant claimed invention except for the specific configuration of the inductor coil.

Abel discloses an inductor formed of a plurality of magnetic layers [102-112] each including a coil pattern [122, 124, 126, 128], core piece [182, figure 4] and vias [169a-175f].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use the inductor design of Abel in Imam for the purpose of enhancing magnetic coupling.

Regarding claim 2, Imam discloses the use of CMOS technology [paragraph 27].

Regarding claim 4, Imam discloses that interconnecting pieces, winding pattern and core can be formed of the same material.

Regarding claims 11-12, the specific sizes, strength and materials used for the inductor

would have been an obvious design consideration based on the desired inductance and cost

parameters.

Response to Arguments

Applicant's arguments filed 3/31/06 have been fully considered but they are not

persuasive.

Applicant argues that:

[1] Imam in view of Abel do not teach a vertical inductor including planar coils and a

vertical magnetic core; and

[2] There is no reason to combine Imam and Abel.

The examiner disagrees.

Regarding [1], applicant has not claimed, nor has examiner considered, a vertical

inductor including planar coils and a vertical magnetic core;

Regarding [2], In response to applicant's argument that there is no suggestion to combine

the references, the examiner recognizes that obviousness can only be established by combining

or modifying the teachings of the prior art to produce the claimed invention where there is some

teaching, suggestion, or motivation to do so found either in the references themselves or in the

knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071,

5 USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir.

1992). In this case, both Imam and Abel disclose planar inductor/transformer, a skilled artisan

would have been motivated to use the core design of Abel in Imam for the purpose of enhancing

magnetic coupling.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2832

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN 19N

Tuyen Nguyen